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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,792	03/06/2002	Louis P. Huber	P04870US1	9696
22885 7:	590 06/12/2003			
MCKEE, VOORHEES & SEASE, P.L.C. 801 GRAND AVENUE SUITE 3200			EXAMINER	
			PHAN, THIEM D	
DES MOINES,	, IA 50309-2721		ADTIBUT	DAREN VIII ARER
			ART UNIT	PAPER NUMBER
			3729	4
			DATE MAILED: 06/12/2003	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	,
	10/091,792	HUBER ET AL.	
Office Action Summa	Examiner	Art Unit	
	Tim Phan	3729	
The MAILING DATE of this cor Period for Reply	mmunication appears on the cover s	heet with the correspondence address	
A SHORTENED STATUTORY PERI THE MAILING DATE OF THIS COM - Extensions of time may be available under the pro after SIX (6) MONTHS from the mailing date of th - If the period for reply specified above is less than - If NO period for reply is specified above, the maxi - Failure to reply within the set or extended period f - Any reply received by the Office later than three n earned patent term adjustment. See 37 CFR 1.70 Status	MUNICATION. Divisions of 37 CFR 1.136(a). In no event, howeve is communication. Thirty (30) days, a reply within the statutory minimmum statutory period will apply and will expire SIX for reply will, by statute, cause the application to be nonths after the mailing date of this communication.	may a reply be timely filed im of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication. become ABANDONED (35 U.S.C. § 133).	
1)⊠ Responsive to communication	n(s) filed on <u>06 March 2002</u> .		
2a) This action is FINAL .	2b)⊠ This action is non-fina	I.	
	ndition for allowance except for for practice under <i>Ex parte Quayle</i> , 1	nal matters, prosecution as to the merits is 035 C.D. 11, 453 O.G. 213.	6
4)⊠ Claim(s) <u>26-32</u> is/are pending	in the application.		
,	_ is/are withdrawn from considerati	on	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>26-32</u> is/are rejected.			
7) ☐ Claim(s) is/are objected			
	restriction and/or election requirem	ant	
Application Papers	restriction and/or election requirem	ont.	
9)☐ The specification is objected to	by the Examiner.		
10) The drawing(s) filed oni	s/are: a)□ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that a	nny objection to the drawing(s) be held	n abeyance. See 37 CFR 1.85(a).	
11) The proposed drawing correction	on filed on is: a)□ approved	b) disapproved by the Examiner.	
If approved, corrected drawings	are required in reply to this Office action	n.	
12)☐ The oath or declaration is object	ted to by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 12	20		
13) Acknowledgment is made of a	claim for foreign priority under 35 t	J.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ Non	e of:		
1. Certified copies of the p	riority documents have been receiv	ed.	
2. Certified copies of the p	riority documents have been receiv	ed in Application No	
application from the	opies of the priority documents hav International Bureau (PCT Rule 17 action for a list of the certified cop		
14) Acknowledgment is made of a c	laim for domestic priority under 35	J.S.C. § 119(e) (to a provisional application	on).
,	gn language provisional application	has been received.	•
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Re 3) Information Disclosure Statement(s) (PTO-1)	view (PTO-948) 5) 🔲 N	nterview Summary (PTO-413) Paper No(s) otice of Informal Patent Application (PTO-152) ther:	
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 4	

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DETAILED ACTION

Abstract

1. On page 17, above "ABSTRACT OF THE DISCLOSURE", -- Method for manufacturing a power chip resistor -- has been suggested to be inserted.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 26, 29, 31 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Wellard (US 4,267,634) hereinafter '634.

As applied to claims 26 and 31, the '634 teaches a method for making chip component, comprising:

• adhering a first chip or thick film resistor (Ch. Fig. 3, element 15) to second chip or thick film resistor (Ch. Fig. 3, element 15) with a glass or ceramic encapsulant (Cf. Fig. 3, element 13),



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• connecting a first terminal of the first chip resistor to a first terminal of the second chip resistor with a first metal barrier (Cf. Fig. 7, element 27; column 4, lines 11-13),

• connecting a second terminal of the first chip resistor to a second terminal of the second chip resistor with a second metal barrier (Cf. Fig. 7, element 29; column 4, lines 11-13).

As applied to claim 29, the '634 teaches that the third chip resistor (Cf. Fig. 3, element 15) is adhered to the second chip resistor (Cf. Fig. 3, element 15) with a second glass or ceramic encapsulant (Cf. Fig. 3, element 13).

As applied to claim 32, the '634 teaches a method for making chip component, comprising:

- adhering a first chip resistor (Cf. Fig. 2, element 15) having a first substrate (Ch. Fig. 2, element 13) to second chip resistor (Cf. Fig. 2, element 15) having a second substrate (Cf. Fig. 2, element 17) with a glass or ceramic encapsulant (Cf. Fig. 2, element 17),
- connecting a first terminal of the first chip resistor to a first terminal of the second chip resistor with a first metal barrier (Cf. Fig. 7, element 27; column 4, lines 11-13),
- connecting a second terminal of the first chip resistor to a second terminal of the second chip resistor with a second metal barrier (Cf. Fig. 7, element 29; column 4, lines 11-13).

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Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 27, 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over the '634.

As applied to claims 27 and 28, the '634 teaches the claimed invention except for using nickel or nickel alloy as metal barrier. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use nickel or nickel alloy as metal barrier since it is known in the art that palladium-silver with similar melting temperature is used as metal barrier (Cf. column 3, lines 47-50).

As applied to claim 30, the '634 teaches the claimed invention except for using glass frit as encapsulant. It would have been an obvious matter of design choice to use glass frit as encapsulant, since applicants have not disclosed that using glass frit as encapsulant solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the encapsulant made of low dielectric constant material (Cf. column 2, lines

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37-41). Moreover, applicants indicate that the encapsulant can be of any inert materials other

than glass frit (Cf. Specification, page 5, lines 5-8).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tim Phan whose telephone number is 703-605-0707. The

examiner can normally be reached on M - F, 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Vo can be reached on 703-308-1789. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9302 for regular

communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1148.

M

CARL J. ARBES
PRIMARY EXAMINER

Tim Phan Examiner

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tp

June 5, 2003